

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method comprising:
providingreceiving, by a computing device, a key matrix having N rows and M
columns of matrix keys, where $N \geq 2$ and $M \geq 2$;
for each column of the key matrix, performing, by the computing device,
arithmetic operations utilizing matrix keys of at least two selected rows of the key matrix
to produce a secret device key which is part of a first set of secret device keys;
producing in memory of the computing device, by the computing device, a
shared secret key based on arithmetic operations on selected secret device keys of the
first set of secret device keys, the selected secret device keys being a portion of the first
set of secret device keys and being determined based on a first key selection vector
received from a recipient digital platform.
2. (Original) The method of claim 1, wherein the arithmetic operations include
modular addition.
3. (Currently Amended) The method of claim 1, ~~wherein~~ further comprising, prior to
performing the arithmetic operations, ~~the method comprises:~~
generating a second key selection vector identifying the at least two selected
rows of the key matrix from which to produce the first set of secret device keys.
4. (Currently Amended) The method of claim 3, wherein the second key selection
vector is uniquely assigned to a ~~first~~ sender digital platform.
5. (Currently Amended) The method of claim 4, ~~wherein~~ further comprising, prior to
producing the shared secret key, ~~the method comprises:~~
receiving the firsta key selection vector from a ~~second~~ the recipient digital
platform in communication with the ~~first~~ sender digital platform; and

analyzing contents of the first key selection vector from the ~~second~~ recipient digital platform to determine the selected secret device keys of the first set of secret device keys.

6. (Currently amended) The method of claim 1, ~~wherein further comprising~~, prior to performing arithmetic operations on keys of at least two selected rows, ~~the method further comprises:~~

dedicating the rows of the key matrix to a first classification; and
dedicating the columns of the key matrix to a second classification.

7. (Original) The method of claim 6, wherein the first classification includes digital platforms designed to provide information to other digital platforms.

8. (Original) The method of claim 7, wherein the second classification includes digital platforms designed to receive information from other digital platforms.

9. (Currently amended) The method of claim 1, wherein the producing of the shared secret key comprises:

analyzing contents of an ~~incoming~~ the first key selection vector; and
performing arithmetic operations ~~on~~ of the selected secret device keys located in columns of the key matrix identified by the contents of the ~~incoming~~ first key selection vector.

10. (Currently amended) The method of claim 9, wherein the producing of the shared secret key further comprises:

performing a hash operation on results of the arithmetic operations of the selected secret device keys located in the column of the key matrix identified by the contents of the ~~incoming~~ first key selection vector.

11-27 (Cancelled).